

# Secure file access by using SMB share ACLs

ONTAP 9

NetApp February 15, 2022

This PDF was generated from https://docs.netapp.com/us-en/ontap/smb-admin/manage-smb-level-acls-concept.html on February 15, 2022. Always check docs.netapp.com for the latest.

# **Table of Contents**

| Secure file access by using SMB share ACLs            | <br> | <br>. 1 |
|---|------|------|------|------|------|------|------|---------|
| Guidelines for managing SMB share-level ACLs          | <br> | <br>. 1 |
| Create SMB share access control lists                 | <br> | <br>. 1 |
| Commands for managing SMB share access control lists. | <br> | <br>. 3 |

# Secure file access by using SMB share ACLs

## **Guidelines for managing SMB share-level ACLs**

You can change share-level ACLs to give users more or less access rights to the share. You can configure share-level ACLs by using either Windows users and groups or UNIX users and groups.

After you create a share, by default, the share-level ACL gives read access to the standard group named Everyone. Read access in the ACL means that all users in the domain and all trusted domains have read-only access to the share.

You can change a share-level ACL by using the Microsoft Management Console (MMC) on a Windows client or the ONTAP command line.

The following guidelines apply when you use the MMC:

- The user and group names specified must be Windows names.
- · You can specify only Windows permissions.

The following guidelines apply when you use the ONTAP command line:

• The user and group names specified can be Windows names or UNIX names.

If a user and group type is not specified when creating or modifying ACLs, the default type is Windows users and groups.

· You can specify only Windows permissions.

### Create SMB share access control lists

Configuring share permissions by creating access control lists (ACLs) for SMB shares enables you to control the level of access to a share for users and groups.

#### About this task

You can configure share-level ACLs by using local or domain Windows user or group names or UNIX user or group names.

Before creating a new ACL, you should delete the default share ACL Everyone / Full Control, which poses a security risk.

In workgroup mode, the local domain name is the SMB server name.

#### **Steps**

- 1. Delete the default share ACL:vserver cifs share access-control delete -vserver vserver name -share share name -user-or-group everyone
- 2. Configure the new ACL:

If you want to configure ACLs by using a	Enter the command
Windows user	<pre>vserver cifs share access-control create -vserver vserver_name -share share_name -user-group-type windows -user-or-group Windows_domain_name\\user_name -permission access_right</pre>
Windows group	vserver cifs share access-control create -vserver vserver_name -share share_name -user-group-type windows -user-or-group Windows_group_name -permission access_right
UNIX user	<pre>vserver cifs share access-control create -vserver vserver_name -share share_name -user-group-type unix-user -user-or-group UNIX_user_name -permission access_right</pre>
UNIX group	vserver cifs share access-control create -vserver vserver_name -share share_name -user-group-type unix-group -user-or-group UNIX_group_name -permission access_right

3. Verify that the ACL applied to the share is correct by using the vserver cifs share access-control show command.

#### **Example**

The following command gives Change permissions to the "Sales Team" Windows group for the "sales" share on the "vs1.example.com" SVM:

```
cluster1::> vserver cifs share access-control create -vserver
vs1.example.com -share sales -user-or-group "Sales Team" -permission
Change
cluster1::> vserver cifs share access-control show
              Share User/Group
                                               User/Group Access
Vserver
              Name
                        Name
                                               Type
Permission
_____
vsl.example.com c$ BUILTIN\Administrators windows
Full Control
vsl.example.com sales DOMAIN\"Sales Team"
                                               windows
                                                          Change
```

The following command gives Read permission to the "engineering" UNIX group for the "eng" share on the "vs2.example.com" SVM:

```
cluster1::> vserver cifs share access-control create -vserver
vs2.example.com -share eng -user-group-type unix-group -user-or-group eng
-permission Read
cluster1::> vserver cifs share access-control show
               Share
                         User/Group
                                                User/Group Access
Vserver
               Name
                         Name
                                                 Type
Permission
_____
vs2.example.com c$ BUILTIN\Administrators windows
Full Control
vs2.example.com eng
                                                unix-group Read
                        engineering
```

The following commands give Change permission to the local Windows group named "Tiger Team" and Full\_Control permission to the local Windows user named "Sue Chang" for the "datavol5" share on the "vs1"SVM:

```
cluster1::> vserver cifs share access-control create -vserver vs1 -share
datavol5 -user-group-type windows -user-or-group "Tiger Team" -permission
Change
cluster1::> vserver cifs share access-control create -vserver vs1 -share
datavol5 -user-group-type windows -user-or-group "Sue Chang" -permission
Full Control
cluster1::> vserver cifs share access-control show -vserver vs1
             Share User/Group
                                                   User/Group Access
Vserver
             Name
                       Name
                                                   Type
Permission
_____
vs1
             c$
                      BUILTIN\Administrators windows
Full Control
vs1
            datavol5 DOMAIN\"Tiger Team"
                                                   windows
                                                              Change
             datavol5 DOMAIN\"Sue Chang"
vs1
                                                   windows
Full Control
```

# Commands for managing SMB share access control lists

You need to know the commands for managing SMB access control lists (ACLs), which

# includes creating, displaying, modifying, and deleting them.

If you want to	Use this command
Create a new ACL	vserver cifs share access-control create
Display ACLs	vserver cifs share access-control show
Modify an ACL	vserver cifs share access-control modify
Delete an ACL	vserver cifs share access-control delete

#### **Copyright Information**

Copyright © 2022 NetApp, Inc. All rights reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means-graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system- without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

#### **Trademark Information**

NETAPP, the NETAPP logo, and the marks listed at <a href="http://www.netapp.com/TM">http://www.netapp.com/TM</a> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.